



# CONSTRUCTION EQUIPMENT

## VOLVO A25E 73007 - BOGIE/CENTER AXLE



**Sample No:** VC371861  
**Oil Type:** GEAR OIL SAE 90W140  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VC371861</b>	VCE169962	---	---
Sample Date	<b>11 Oct 2013</b>	07 Jun 2012	---	---
Machine Hours	<b>6738</b>	4613	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>SEVERE</b>	SEVERE	---	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>317.2</b>	340.9	---	---
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### CONTAMINATION

Silicon	ppm	<b>292</b>	540	---	---
Sodium	ppm	<b>4</b>	8	---	---
Potassium	ppm	<b>7</b>	21	---	---



### WEAR METALS

Iron	ppm	<b>596</b>	489	---	---
Copper	ppm	<b>218</b>	148	---	---
Lead	ppm	<b>0</b>	0	---	---
Tin	ppm	<b>12</b>	0	---	---
Aluminum	ppm	<b>38</b>	86	---	---
Chromium	ppm	<b>6</b>	4	---	---
Molybdenum	ppm	<b>0</b>	<1	---	---
Nickel	ppm	<b>6</b>	7	---	---
Titanium	ppm	<b>3</b>	4	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>6</b>	5	---	---
Vanadium	ppm	<b>&lt;1</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>11</b>	23	---	---
Magnesium	ppm	<b>7</b>	69	---	---
Zinc	ppm	<b>15</b>	40	---	---
Phosphorus	ppm	<b>838</b>	312	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>171</b>	44	---	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The copper level is abnormal. Moderate concentration of visible metal present. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0228  
**Unique No:** 6432098  
**Signed:** Elizabeth Valachovic  
**Report Date:** 05 Nov 2013



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## GRAPHS

